

ABSTRACT OF THE DISCLOSURE

The present invention provides a cell search method that can reduce the power consumption of a mobile station.

- 5 At a first step, averaging is executed over an averaging time T_1 , and slot boundaries are then detected. Next, as in conventional examples, a second and a third step are serially executed, and the averaging at the first step continues to be executed concurrently with the operation
- 10 of the second and third steps. Correlation values for slots over an averaging time T_1' are averaged, and the averaging is further executed using an already calculated first-step average correlation value, thereby calculating an average correlation value.